

ADVANCE PROGRAM
and
REGISTRATION FORM

The
Electromagnetic Compatibility (EMC) Society
Seattle Chapter

of the



Proudly Presents

**The Latest Developments in Global EMC Commercial
and Military Test Standards: A Colloquium and Exhibition**

With Special Guest Speaker

***Francesca Maradei, President of the IEEE EMC Society,
from the University of Rome, "La Sapienza"***

Monday, June 28, 2010

**The Museum of Flight
9404 East Marginal Way
Seattle, WA 98108-4097**

Program Outline

7:30 am	REGISTRATION CONTINENTAL BREAKFAST
8:30 am	IEEE EMC Society Welcome Dennis Lewis, The Boeing Company Seattle EMC Chapter Chair
8:35 am	An Overview of the IEEE EMC Society: EMC certification by simulations: A new trend in European standards Francesca Maradei, President of the IEEE EMC Society The University of Rome, "La Sapienza"
9:20 am	Overview of Basic EMC Emission Measurements: What you need to know now and in the future when testing for product compliance in a variety of test facilities Don Heirman, Don HEIRMAN Consultants
10:20 am	BREAK
10:40 am	Test Instrumentation: Impact of calibration and use of modern instrumentation including new specifications; how misuse might affect product compliance assessment Don Heirman, Don HEIRMAN Consultants
11:40 am	LUNCH
12:40 pm	Measurement Instrumentation Uncertainty Considerations: Identifying the major components and how this affects stating pass/fail in product compliance tests using CISPR 16-4-2, <i>plus</i> how CISPR product committees are implementing uncertainty usage Don Heirman, Don HEIRMAN Consultants
1:40 pm	A review of the major product standards – including current and future work in IEC CISPR and ANSI ASC C63® Don Heirman, Don HEIRMAN Consultants
2:40 pm	BREAK
3:00 pm	Current Activity and Pending Revisions to DO160, <i>plus</i> What You Need to Know about HIRF Testing Dave Walen, The FAA
4:00 pm to 5:00 pm	SELF-GUIDED TOUR OF MUSEUM GALLERIES Complimentary access to registered attendees only

NOTE: Tabletop displays (exhibits) will be open during registration, lunch, and all breaks. Access to the tabletop displays is available during the technical sessions, but the displays may not be manned during those times. The above program is subject to change without notice.

About the Speakers



Donald Heirman is president of Don HEIRMAN Consultants, a training, standards, and educational electromagnetic compatibility (EMC) consultation corporation. Previously he was with Bell Laboratories for over 30 years in many EMC roles including Manager of Lucent Technologies (Bell Labs) Global Product Compliance Laboratory, which he founded, and where he was in charge of the Corporation's major EMC and regulatory test facility and its participation in ANSI accredited standards and international EMC standardization committees. He chairs, or is a principal contributor to, US and international EMC standards organizations including ANSI ASC C63® (chairman) and the International Electrotechnical Commission's (IEC) Special International Committee

on Radio Interference (CISPR) where in October 2007 he was named the chair of CISPR moving from the previous role as its subcommittee A chairman responsible for CISPR Publication 16. He is a member of the IEC's Advisory Committee on EMC (ACEC) and the Technical Management Committee of the US National Committee of the IEC. In November 2008 he was presented with the prestigious IEC Lord Kelvin award at the IEC General Meeting in Sao Paulo, Brazil. This is the highest award in the IEC and recognizes Don's many contributions to global electrotechnical standardization in the field of EMC. He is a life Fellow of the IEEE and a life member of the IEEE EMC Society (EMCS) and member of its Board of Directors, chair of its technical committee on EMC measurements, past EMCS president and vice president for standards, and past chair of its standards development committee. He is also past president of the National Cooperation for Laboratory Accreditation (NACLA). He is also past president of the IEEE Standards Association (SA), past member of the SA Board of Governors and past member of the IEEE's Board of Directors and Executive Committee. He is also the Associate Director for Wireless EMC at the University of Oklahoma Center for the Study of Wireless EMC. He has presented numerous workshops, tutorials, and technical papers internationally and is listed in several Who's Who publications. He is a retired Commander in the US Navy.



Francesca Maradei was awarded a Degree in Electrical Engineering in 1992 from Sapienza University of Rome, a Diplome d'Etudes Approfondies (DEA) in Electrical Engineering from the Institut National Polytechnique de Grenoble, France, in 1993, and a Ph.D. in Electrical Engineering from Sapienza University of Rome, in 1997. Ms Maradei is currently an Associate Professor at Sapienza University.

Ms. Maradei joined the Department of Electrical Engineering of Sapienza University of Rome in 1996 where, before becoming an Associate Professor, she has served as an Assistant Professor until 2000. She is author of more than 100 papers in the field of numerical techniques and their application to EMC problems (shielding, transmission line analysis, electrostatic discharge, electric fast transient, printed circuit boards, power distribution networks).

Ms. Maradei is the President of the IEEE Electromagnetic Compatibility (EMC) Society for 2010-11. She has been serving in the Board of Directors of IEEE EMC Society since 2005. She served as Chapter Coordinator of the IEEE EMCS Society in 2005-2009, and as an Associate Editor of the IEEE Transactions on EMC from 1999 to 2000. serves as reviewer of technical papers for the IEEE Transactions on Electromagnetic Compatibility, on Industry Applications, on Microwave Theory and Techniques, and on Magnetics. She was awarded the 2003 James Melcher Price Paper Award by the Electrostatic Committee of the IEEE Industry Applications Society; the Oral Presentation Best Paper Award at the International Symposium EMC'94 ROMA, and the Poster Presentation Best Paper Award at the International Symposium EMC EUROPE 2000.



Mr. David B. Walen is Chief Scientific and Technical Advisor - Electromagnetic Interference with the Federal Aviation Administration. Dave specializes in aircraft electromagnetic compatibility, lightning protection, and high intensity radiated field (HIRF) protection. He is involved in FAA aircraft certification, accident investigation, electromagnetic protection policy development, and aircraft electromagnetic protection certification training.

Dave joined the FAA Aviation Safety organization in September 1996 as Chief Scientific and Technical Advisor for Electromagnetic Interference. Prior to this, he spent nineteen years with the Boeing Company, where he worked on aircraft HIRF and lightning protection, and antenna engineering for civil and military aircraft.

He is a member of RTCA Special Committee 135, which is responsible for revisions to RTCA/DO-160 Environmental Conditions and Test Procedures for Airborne Equipment. He is also a member of the SAE AE2 Lightning and the SAE AE4 EMC Committees.

Event Overview

The Program

This program was designed to bring the latest information related to RF and EMC measurement techniques and standards to the local community. Experts in the industry will share practical information on various topics in an extended presentation format. This allows a thorough discussion of each topic and provides the opportunity for extended questions and answers. The “hands-on” quality of the presentation enables the registrant to learn useful information that can be used on the job – in the “real world.”

The Exhibition & Museum Tour

There will be an exhibition by vendors of EMC and DOD test and measurement related products and services in the technical presentation area. These products and services address the needs of the commercial, military, and aerospace industries.

From 4:00 to 5:00 pm only, the Museum of Flight is open to everyone *registered* to attend this event. Those wearing IEEE event badges only may take a complementary self-guided tour of the museum galleries.

Colloquium and Exhibition Location

**The Museum of Flight
9404 East Marginal Way
Seattle, WA 98108-4097**

Parking Information

There is no charge for parking in the Museum of Flight parking lot.

Event Organizing Committee

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REGISTRATION FEES

Deadlines:	IEEE Members	Non- Members
Received by May 15	\$75	\$125
Received From May 16– June 22	\$125	\$175
After June 22 or at Door*	\$150	\$200
Full-time Students with copy of valid Student I.D., Received by June 22*:	\$25	N/A
NOTE: Unemployed/retired attendees: Take a 50% discount off the IEEE Member fees above.		

*Please do not mail after June 15. Contact us for more details.

Registration Information

Please print clearly

Name:	_____
Title:	_____
Company:	_____
Street Address:	_____
City:	_____ State: _____ Zip: _____
Daytime Phone:	_____
E-mail Address:	_____
IEEE Member:	Y <input type="checkbox"/> N <input type="checkbox"/>
IEEE #:	_____
Full-time Student:	Y <input type="checkbox"/> N <input type="checkbox"/>
School:	_____
<i>(Please attach copy of Student ID to obtain Student rate.)</i>	

Registration by Mail/Fax/On-Line

Registration Total per Fees Above

Check Enclosed in Amount of: \$ _____
(Checks payable to: Seattle EMC Chapter)

-- Or --

Credit Card Payment – Please Provide:

Name on Card: _____

Credit Card No: _____

Expiration Date: _____

Amount Charged: \$ _____

Signature: _____

Mail to: Seattle EMC Chapter
c/o Lionheart Northwest
15874 NE 93rd Way
Redmond, WA 98052

Fax to: Leo Smale, Fax: 425-952-8739

E-mail to: sales@lionheartnw.com

[REGISTER ON LINE NOW](#)

NOTE: The registration fee includes one copy of the colloquium record, continental breakfast, lunch, refreshment breaks, and the reception. The organizing committee reserves the right to substitute speakers, restrict size, or to cancel the colloquium and exhibition. In the event the organizing committee cancels this event, registration fees only will be fully refunded. Individuals canceling their registration prior to May 15 will receive a full refund. No refunds will be made to individuals who cancel their registration after May 15. Substitutions are allowed. Attendance is limited. Registration will be confirmed on a first come, first served basis.